

THE CLAIMS

What is claimed is:

1. A golf ball comprising a core, a water vapor barrier layer and a cover, wherein the
5 water vapor barrier layer has a moisture vapor transmission rate that is lower than that of the cover and the water vapor barrier layer comprises a terpolymer of ethylene, a softening acrylate class ester such as methyl acrylate, n-butyl-acrylate or iso-butyl-acrylate, and a carboxylic acid such as acrylic acid or methacrylic acid.
- 10 2. The golf ball set forth in claim 1, wherein the terpolymer is a terpolymer of ethylene, methyl acrylate and acrylic acid.
3. The golf ball as set forth in claim 1, wherein the acid level by weight in the
15 terpolymer is in the range of about 3 % to about 25%.
4. The golf ball as set forth in claim 3, wherein the acid level by weight in the
terpolymer is in the range of about 4 % to about 15%.
5. The golf ball as set forth in claim 4, wherein the acid level by weight in the
20 terpolymer is in the range of about 7 % to about 11%.
6. The golf ball set forth in claim 1, wherein the terpolymer has a melt flow index in the
range between about 1gram/10 minutes to about 500 grams/10 minutes.
- 25 7. The golf ball set forth in claim 6, wherein the melt flow index of the terpolymer is in
the range of about 3 grams/10 minutes to about 60 grams/10 minutes.
8. The golf ball set forth in claim 7, wherein the melt flow index of the terpolymer is in
the range of about 3 grams/10 minutes to about 35 grams/10 minutes.

30

9. The golf ball set forth in claim 8, wherein the melt flow index of the copolymer of ethylene and methacrylic acid is in the range of about 5 grams/10 minutes to about 25 grams/10 minutes.

5

10

15

20

25

30